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Manipulation of microspheres and biological cells with multiple agile VCSEL traps

B Shao, S Zlatanovic, M Ozkan, AL Birkbeck, ... - Sensors & Actuators: B. Chemical, 2006 - Elsevier
 ... Fig. 5. Experimental set-up of **microscope**-integrated micromanipulator based on VCSELs. ...
 Fig. 7. 4 × 4 VCSEL array used for **microscope**-integrated manipulator. ...

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[CITATION] Failure mode analysis of oxide VCSELs in high humidity and high temperature

S Xie, RW Herrick, D Chamberlin, SJ Rosner, ... - Journal of Lightwave Technology, 2003 - OSA

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Single-fundamental-mode photonic-crystal vertical-cavity surface-emitting lasers

DS Song, SH Kim, HG Park, CK Kim, YH Lee - Applied Physics Letters, 2002 - link.aip.org

... oxide aperture is added to the second generation devices for current confinement;
 (b) top view image of the PC-VCSEL; (c) scanning electron **microscope** image of ...

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A micromachined silicon-based probe for a scanning near-field optical **microscope** on-chip

S Bargiel, D Heinis, C Gorecki, A Gorecka, ... - Measurement Science and Technology, 2006 - iop.org

... The novel concept of an integrated scanning near-field optical **microscope** on-chip ...
 realized by the use of a vertical-cavity surface-emitting laser (VCSEL). ...

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... technique for the direct measurement of the local temperature distribution in VCSELs

M Dabbico, V Spagnolo, M Ferrara, G ... - Proceedings of SPIE, 2002 - link.aip.org

... One single experiment has been performed to locally measure the temperature
 distribution in VCSEL by using a thermal scanning **microscope**. ...

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... of vertical-cavity surface-emitting lasers using near-field scanning optical **microscopy**

WC Bradford, JD Beach, RT Collins, DW Kisker ... - Applied Physics Letters, 2002 - link.aip.org

A near-field scanning optical **microscope** was used in collection mode to ... current of
 power emission from vertical-cavity surface-emitting lasers (VCSELs). ...

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Manipulation of live cells and inorganic objects with optical micro beam arrays

M Ozkan, S Esener, M Wang - US Patent App. 09/917,139, 2001 - Google Patents

... VCSEL/ **Microscope** Objective 100x, 1.25NA A Motorized Stage /V Dichroic Beamsplitter
 M A CCD VJ Page 2. Patent Application Publication Oct. ...

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[Metallic wafer bonding for the fabrication of long-wavelength vertical-cavity surface-emitting ...](#)

HC Lin, KL Chang, KC Hsieh, KY Cheng, WH ... - Journal of Applied Physics, 2002 - [link.aip.org](#)

... The bonded VCSEL structure maintains a mirror-like surface after the thermal cycle as inspected under a Normaski optical **microscope**. ...

[Cited by 3](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

[PDF] •Miniaturized Scanning Near-Field **Microscope** Sensor Based on Optical Feedback Inside a ...

D Heinis, C Gorecki, C Bringer, V Bardinal, T ... - JAPANESE JOURNAL OF APPLIED PHYSICS PART 2 ..., 2003 - [charlotte.bringer.free.fr](#)

... the proposed architecture is given. [DOI: 10.1143/JJAP.42.L1469] KEYWORDS:

VCSEL, **SNOM microscopy**, optical feedback, microsystems ...

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[CITATION] ... SURFACE-EMITTING LASERS MEASURED BY SCANNING THERMAL **MICROSCOPY**

K Luo, RWH Herrickb, A Majumdar, P ... - Microelectromechanical systems:(MEMS), 1996 - American Society of Mechanical Engineers

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